

Claims:

method
 A receiver that combines a decoder with an equalizer that selects a trellis transition, s , that minimizes the metric

$$\xi_j(k) = \left| r(k) - \sum_{l=L_1+1}^{L_1} \tilde{h}_j(l) \tilde{s}(k-l) - \sum_{l=L_1+1}^{L+1} \tilde{h}_j(l) \hat{s}(k-l) \right|^2$$

- 5 where $r(k)$ is a signal received by said receiver at time k , $\tilde{h}_j(l)$ is related to both the transmission channel and to the encoding structure in the transmitter, $\tilde{s}(k)$ is a trial symbol specified by a selected trellis transition and $\hat{s}(k)$ is a symbol that was previously decided.

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